

ATM/ANS Equipment Certification Minor/Major changes

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Agenda

- Minor/Major Change – Legal requirements
- Application
- Anticipation of minor changes

Changes to equipment design – Legal requirements in Reg 2023/1768

ATM/ANS.EQMT.CERT.060 Changes to the ATM/ANS equipment certification basis

- (a) All changes shall be approved by the Agency once the certificate holder demonstrates that the changes, and the areas affected by the changes, comply with the certification basis as established by the Agency in accordance with point ATM/ANS.EQMT.AR.B.001.
- (b) By way of derogation from point (a), the changes within the scope of the organisation's privileges following an approved change management procedure shall be managed by the approved design organisation and shall be limited to specific configuration(s) of the ATM/ANS equipment to which the changes relate.
- (c) For that purpose, the holder of an ATM/ANS equipment certificate shall have a system in place to identify the scope of the changes to ATM/ANS equipment as 'minor' and 'major'.
- (d) The changes shall be issued with a statement in accordance with point (b)(2) of point DPO.OR.C.001 of the Annex II (Part-DPO.OR) to Implementing Regulation (EU) 2023/1769.

(2) issue data and information, including instructions, under its responsibility within the scope of its terms of approval as established by the Agency;

ATM/ANS.EQMT.CERT.020 Changes that require the issue of a new ATM/ANS equipment certificate

An approved design organisation that proposes changes to ATM/ANS equipment shall apply for the issue of a new certificate where the changes in the design or the functionality of that ATM/ANS equipment are so extensive that a complete investigation of compliance with the applicable certification basis is required.

Changes to equipment design – Legal requirements in Reg 2023/1769

DPO.OR.A.025 Duration, continued validity and privileges of an organisation approval

- (c) The holder of an organisation approval shall be entitled, within the scope of its terms of approval and under the relevant procedures of the design management system:
 - (1) to classify changes to an ATM/ANS equipment as 'major' or 'minor';
 - (2) to approve minor changes to an ATM/ANS equipment certificate(s) and/or declaration(s) issued under Delegated Regulation (EU) 2023/1768;

DPO.OR.B.001 Management system

- (5) a process to identify the scope of changes to the ATM/ANS equipment and the associated risk;

DPO.OR.B.005 Change management

- (b) Each change to ATM/ANS equipment shall be notified to and approved by the Agency before being implemented unless such a change is managed in accordance with a change management procedure approved by the Agency. This change management procedure shall define the classification of the changes to the ATM/ANS equipment and describe how such changes will be notified and managed.

In short...

- DPO must have a change management process (CMP) in place to classify changes to the equipment design within its scope of work
- CMP will reflect DPO's **privileges**
 - classify changes as **MINOR/MAJOR**
 - **Major change: 'significant enough to perform reinvestigation'**
 - implement and approve minor changes without Agency intervention
- CMP will need to
 - anticipate minor changes to reach EASA agreement
 - describe how minor (anticipated changes) are managed and notified
 - describe how major are managed and notified
 - be approved by EASA

Changes to equipment design – Major changes requires new certificate



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AMC1 DPO.OR.B.005(b) Change management

- (e) Major changes should be notified to EASA prior to their introduction by submission of one of the following:
 - (1) an application for the issue of a new certificate, in accordance with point [ATM/ANS.EQMT.CERT.020](#) of Implementing Regulation (EU) 2023/1768, for ATM/ANS equipment subject to [Article 4](#) of that Regulation; or

If Major change, new application for certification project is needed
→ different model name, different Part Number (root)
→ new compliance demonstration tests and new DDP
→ latest applicable attestation basis *

*In case of multiple functions embedded in the equipment, and the change only affects one function or add some, isolated from the rest (i.e. without interfering with the others), it is found acceptable to only update the attestation basis to the latest DS for that affected function.

AMC to Changes to equipment design – Part Number scheme



AMC1 DPO.OR.B.005(b) Change management

ED Decision 2024/002/R

Compliance).

- (c) The procedure for change management should be defined in coordination with the procedure for configuration of the ATM/ANS equipment, i.e. the part numbering system of DPO equipment should incorporate how minor changes will be reflected in the configuration of the equipment, and more particularly in the part number structure. In the case of a major change, a new model designation / part number may need to be defined.

→ Use of “open brackets” within the PN for digits reserved for identification of **minor** changes !

B123456AB (x)(y)(y)(zz)

PN root PN suffix

- X = minor SW changes
- Y = minor HW changes
- ZZ = other minor changes

Certificate covers all minor (anticipated) changes under privileges ⇒ No new certificate

EASA
European Union Aviation Safety Agency

ATM/ANS EQUIPMENT CERTIFICATE

EASA.ATMEQ.CER.100XXXXX

This Certificate is issued by EASA, acting in accordance with Regulation (EU) 2018/1139, subject to the conditions specified below, to

DPO NAME
approved as DPO.XXX

STREET NUMBER
POSTAL CODE CITY
COUNTRY

in accordance with Commission Delegated Regulation (EU) 2023/1768 and Detailed Specification DS-GE.CER/DEC issue 1, CER.AFDP.1, CER.VCOM.1 for

MODEL NAME (e.g. EUROPEFDP v1.2)
PART NUMBER (e.g. B12345A[x][y][zz])

DDP No. J98061AA, REVISION 02, or Subsequent Revisions(*)

Remarks:
XXX

Deviations:
XXX

Limitations:
XXX

(*) Subsequent Revisions released following approved DPO change management procedures.

See Continuation Sheet(s)

One certificate covers the 'initial' equipment and its 'future minor changes'

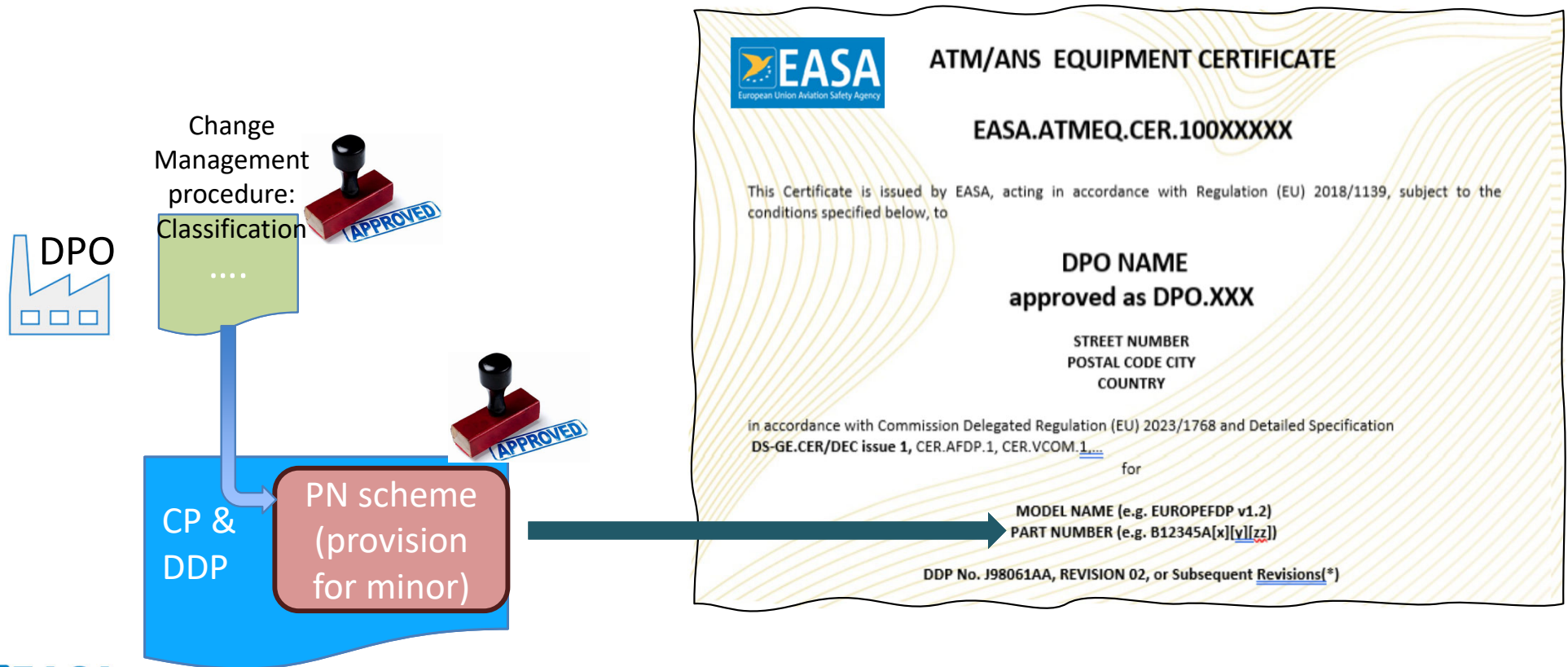
DDP identification:
Ref Nbr & Revision XX

Equipment designation:
Model name & PN
scheme (family of minor
changes anticipated)

Anticipation of minor changes at two levels

- CMP anticipates minor changes (more generically)
 - ☐ Lay down criteria from AMC1 DPO.OR.B.005(b) should be adapted to its scope of work
- Certification Program and initial DDP (more specifically applied to specific ATM/ANS equipment)
 - ☐ Apply the criteria to the specific equipment under certification
- CP & DDP include PN scheme for anticipated minor changes
- If non anticipated minor change: need EASA approval (typically revision update of initial certificate)

How minor changes are anticipated and reflected in the certificate



Implications of changes in a nutshell



Major

- Reinvestigation & reverification
- New application for certificate
- New CP proposed (limited to change)
- Newest DSs applies at the time of application
- Cert Basis may/may not change
- New technical documents and manuals
- New Model designation
- New Part number



Minor (anticipated)

- Limited new test/investigation
- Implemented as per CMP
- Certification Basis remains
- Record change in DDP (Revision digit adjusted)
- Update technical documents and manuals, if needed
- Part number updated (within PN scheme of [xx][yy]..)
- Certificate remains untouched (PN scheme and DDP ref univariable)
- Notify EASA (send new rev DDP)

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 **EASAWorkshop01:-)**

Thank you

Any question?

Or scan



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